



CGCTCAGGATACGACTTCGGGCGCTAGAGGATCGGATCCCCGGGCGGATTATATAGCTCGATCGATC1  
 TTCTCTATATCCGCGGATGGGATATATACACACACAGCGCGGGGATAGCATGACTGATCTA  
 ECCCCATCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTA  
 CACAGACTACGCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTA

PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Bool

Search  for 

Go

Clear

Limits

Preview/Index

History

Clipboard

Details

Display

default

Show:

20

Send to

File

Get Subsequence

☐ 1: NM\_016894. Mus musculus rece...[gi:8394144]

Links

LOCUS Ramp1 848 bp mRNA linear ROD 06-APR-2003  
 DEFINITION Mus musculus receptor (calcitonin) activity modifying protein 1  
 (Ramp1), mRNA.  
 ACCESSION NM\_016894  
 VERSION NM\_016894.1 GI:8394144  
 KEYWORDS .  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 848)  
 AUTHORS Flahaut,M., Rossier,B.C. and Firsov,D.  
 TITLE Respective roles of calcitonin receptor-like receptor (CRLR) and  
 receptor activity-modifying proteins (RAMP) in cell surface  
 expression of CRLR/RAMP heterodimeric receptors  
 JOURNAL J. Biol. Chem. 277 (17), 14731-14737 (2002)  
 MEDLINE 21964103  
 PUBMED 11854283  
 REMARK GeneRIF: role in cell surface expression of CRLR/RAMP heterodimeric  
 receptors  
 REFERENCE 2 (bases 1 to 848)  
 AUTHORS Miret,J.J., Rakhilina,L., Silverman,L. and Oehlen,B.  
 TITLE Functional expression of heteromeric calcitonin gene-related  
 peptide and adrenomedullin receptors in yeast  
 JOURNAL J. Biol. Chem. 277 (9), 6881-6887 (2002)  
 MEDLINE 21850626  
 PUBMED 11733510  
 REMARK GeneRIF: Co-expression of RAMP1 and CRLR reconstituted a CGRP  
 receptor that was able to activate the pheromone-signaling pathway  
 with pharmacological properties similar to those observed  
 previously in mammalian cells.  
 REFERENCE 3 (bases 1 to 848)  
 AUTHORS Miyauchi,K., Tadotsu,N., Hayashi,T., Ono,Y., Tokoyoda,K.,  
 Tsujikawa,K. and Yamamoto,H.  
 TITLE Molecular cloning and characterization of mouse calcitonin  
 gene-related peptide receptor  
 JOURNAL Neuropeptides 36 (1), 22-33 (2002)  
 MEDLINE 22142898  
 PUBMED 12147211  
 REMARK GeneRIF: The mouse cDNA for RAMP1 was cloned and we examined the  
 signal transduction mechanism through the CGRP receptor. mRAMP1 is  
 a 148-amino acid single membrane-spanning protein with a short  
 cytoplasmic portion.  
 REFERENCE 4 (bases 1 to 848)  
 AUTHORS Derst,C., Engel,H., Grzeschik,K. and Daut,J.  
 TITLE Genomic structure and chromosome mapping of human and mouse RAMP  
 genes  
 JOURNAL Cytogenet. Cell Genet. 90 (1-2), 115-118 (2000)

MEDLINE 20515595  
PUBMED 11060459  
REFERENCE 5 (bases 1 to 848)  
AUTHORS Husmann,K., Sexton,P.M., Fischer,J.A. and Born,W.  
TITLE Mouse receptor-activity-modifying proteins 1, -2 and -3: amino acid sequence, expression and function  
JOURNAL Mol. Cell. Endocrinol. 162 (1-2), 35-43 (2000)  
MEDLINE 20314386  
PUBMED 10854696  
REFERENCE 6 (bases 1 to 848)  
AUTHORS Derst,C., Preisig-Mueller,R., Gerhardus,J. and Daut,J.  
TITLE Cloning and sequencing of mouse CGRP/adrenomedullin receptor subunits  
JOURNAL Unpublished  
COMMENT PROVISIONAL REFSEQ: This record has not yet been subject to final NCBI review. The reference sequence was derived from AF146522.1.  
FEATURES  
    Location/Qualifiers  
        source 1..848  
                /organism="Mus musculus"  
                /mol\_type="mRNA"  
                /db\_xref="taxon:10090"  
                /chromosome="1"  
                /map="1 56.0 cM"  
        gene 1..848  
                /gene="Ramp1"  
                /db\_xref="LocusID:51801"  
                /db\_xref="MGI:1858418"  
        CDS 60..506  
                /gene="Ramp1"  
                /codon\_start=1  
                /product="receptor-activity modifying protein 1"  
                /protein\_id="NP\_058590.1"  
                /db\_xref="GI:8394145"  
                /db\_xref="LocusID:51801"  
                /db\_xref="MGI:1858418"  
                /translation="MAPGLRGLPRCGLWLLLAHHLFMVTACRDPDYGTLIQELCLSRF  
KENMETIGKTLWCDWGKTIQSYGELTYCTKHVAHTIGCFWPNPEVDRFFIAVHHRYFS  
KCPISGRALRDPNSILCPFIALPITVTLMTALVVWRSKRTEGIV"  
BASE COUNT 193 a 234 c 242 g 179 t  
ORIGIN

```
1  ggcacgagga gcgggcgagc agctcggcaa ggcgctggga cgggtggggct ctgcttgcca
61 tggccccggg cctgcggggc ctcccgcggt gcggcctctg gctgctgctg gctcaccatc
121 tcttcatggt cactgcctgc cgggaccctg actatgggac tctcatccag gagctgtgcc
181 tcagccgctt caaggagaac atggagacta ttgggaagac gctatggtgt gactggggaa
241 agaccataca gagctatggg gagctcactt actgcaccaa gcacgtggcg cacacgattg
301 gctgtttctg gcccaatccg gaagtggaca gattcttcat cgctgtccac catcgatact
361 tcagcaagtg ccccatctcg ggcagggccc tgcgggaccc tcccaacagc atcctctgcc
421 ctttcattgc gtcccccatt acggtcacgc tgctcatgac tgcactggtg gtctggagga
481 gcaagcgcac agaggggcac gtgtaggtat cccaggtgat gagggattgg ggaaccatgg
541 gcctagccca gcaacagcat caggagcagg tcccaccttg catcctgctc tagcctagtt
601 agcacaggac ttgagagtgg ctctgcatta agctgaatat gccctagcca gaggcttcta
661 gcagggggagc aggggcctgc ctctgcttac ctctgagatt gttctaagca ccaggtctct
721 ggtacacttc atcaccactg tgggcattct gaactccaag gaagactgca cagatgtgtt
781 tgtagatgca cagtttgtga ttaaagagt attcttaaac ctggaaaaaa aaaaaaaaaa
841 aaaaaaaaaa
```

//

Disclaimer | Write to the Help Desk  
NCBI | NLM | NIH